



Genuine 18% Tungsten High Speed Steel Teeth

MARVEL

High - Speed - Edge

HACK SAW BLADES

The Unbreakable MARVEL High-Speed-Edge Hack Saw Blade is the accomplishment of THE PERFECT IDEAL, because it combines all the best qualities and eliminates the brittleness or weakness of all other types.

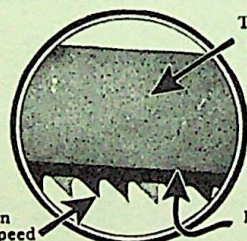
The MARVEL patented electric welding process whereby the genuine 18% tungsten high speed steel tooth edge is integrally welded to an extremely tough and non-brittle chrome-vanadium steel back or body, combines:

1. The fast-cutting and long-lasting qualities of high speed steel (from which all GOOD cutting tools are made); and
2. The stamina and exceptional strength of chrome-vanadium alloy steel (used for products that must never break, such as automobile steering parts).

Since MARVEL High-Speed-Edge blades are positively UNBREAKABLE, each individual blade must produce its full 100% of efficiency—last the full life of its cutting edge; whereas at least 60% of all blades of the other or "breakable" kind will break in two before they have produced more than 25% of their full cutting life, if they are operated at the high speeds and heavy feeds that are necessary for "high speed" efficiency. It is MARVEL'S claim that if you have to "baby" a tool so as not to break it, such tool cannot

produce "high speed" efficiency. You don't need to "baby" MARVEL High-Speed-Edge, because it will never break.

And MARVEL High-Speed-Edge will not pull out at the "eyes" or ends—the weakest part of all blades—because the ends are hardened and tempered to 2 to 4 times the strength of all others. And although much stronger, the eyes of MARVEL High-Speed-Edge are harder to resist stretching at the pinhole, hence will not lose tension and will therefore cut straighter. Only a taut blade can be expected to cut straight. MARVEL High-Speed-Edge can be tensioned much tauter. Use MARVEL High-Speed-Edge Hack Saw Blades in all power machines and in all substantial hand frames to cut faster, to make your work easier, to eliminate the hazards and liability of personal injury that can be caused by shattering "brittle" blades, to relieve labor for other work, to eliminate watching and "babying," and so that you can forget all your former hack saw problems.



10 SUPERIOR FEATURES

- 1 Guaranteed Unbreakable.
- 2 Cut Faster—Genuine 18% Tungsten High Speed Steel Teeth.
- 3 Last Longer—give full life of cutting edge.
- 4 Sharper Teeth — machined with ground cutters, equally sharp on both edges.
- 5 Cut Straighter—great strength permits absolute tension on blade.
- 6 Stronger Ends—will not pull out or stretch.
- 7 Surface Ground—all mill scale removed.
- 8 More Uniform—teeth uniform in size, set and form.
- 9 Stiffer Back — permits greater speeds and feeds.
- 10 More work per dollar—out-cut, out-last all other blades.

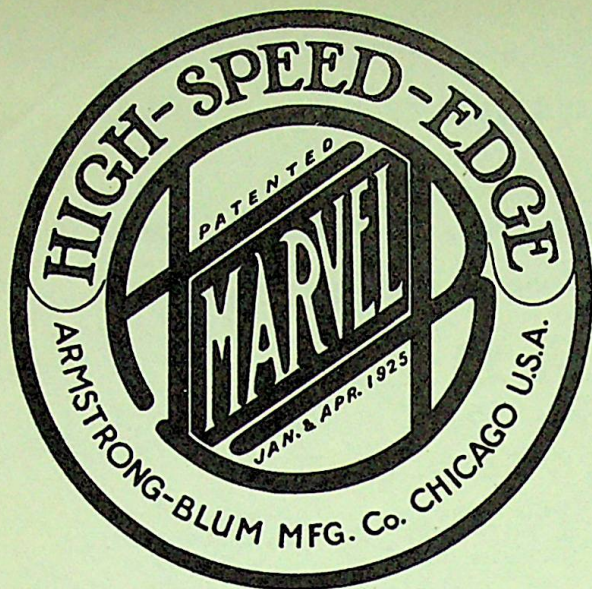
Cost No More Than Ordinary High Speed Blades

Packed ten blades in a box, and priced per each blade.

Stock No.	Length, Inches	Width, Inches	Thickness, Inches	Teeth Per Inch	Weight, Pounds, 100 Blades	LIST PRICE	
						Each	Per 100
Heavy Duty Hand Frame Sizes							
1018-N	10	5/8	.032	18	8	\$0.62 1/4	\$62.50
1218-N	12	5/8	.032	18	10	.75	75.00
Power Machine Sizes							
1206	12	1	.065	6	25	1.20	120.00
1210	12	1	.065	10	25	1.20	120.00
1214	12	1	.049	14	23	1.20	120.00
1406	14	1	.065	6	30	1.40	140.00
1410	14	1	.065	10	30	1.40	140.00
1414	14	1	.049	14	25	1.40	140.00
1404-W	14	1 1/4	.065	4	35	1.75	175.00
1406-W	14	1 1/4	.065	6	35	1.75	175.00
1410-W	14	1 1/4	.065	10	35	1.75	175.00
1706	17	1	.065	6	35	1.70	170.00
1710	17	1	.065	10	35	1.70	170.00
1714	17	1	.049	14	30	1.70	170.00
1704-W	17	1 1/4	.065	4	43	2.12 1/2	212.50
1706-W	17	1 1/4	.065	6	43	2.12 1/2	212.50
1710-W	17	1 1/4	.065	10	43	2.12 1/2	212.50
1810	18	1	.065	10	38	1.80	180.00
1804-W	18	1 1/4	.065	4	45	2.25	225.00
1806-W	18	1 1/4	.065	6	45	2.25	225.00
1810-W	18	1 1/4	.065	10	45	2.25	225.00
1804-H	18	1 1/2	.072	4	60	2.97	297.00
1806-H	18	1 1/2	.072	6	60	2.97	297.00
2104	21	1 1/2	.065	4	60	3.15	315.00
2106	21	1 1/2	.065	6	60	3.15	315.00
2110	21	1 1/2	.065	10	60	3.15	315.00
2104-H	21	2	.072	4	90	4.62	462.00
2106-H	21	2	.072	6	90	4.62	462.00
2406	24	1 1/2	.065	6	73	3.60	360.00
2410	24	1 1/2	.065	10	73	3.60	360.00
2404-H	24	2	.072	4	110	5.28	528.00
2406-H	24	2	.072	6	110	5.28	528.00

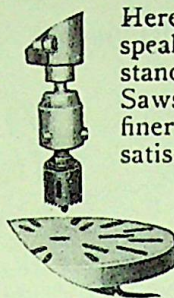
Armstrong-Blum Manufacturing Co.

5700 Bloomingdale Avenue, CHICAGO, ILL., U. S. A.

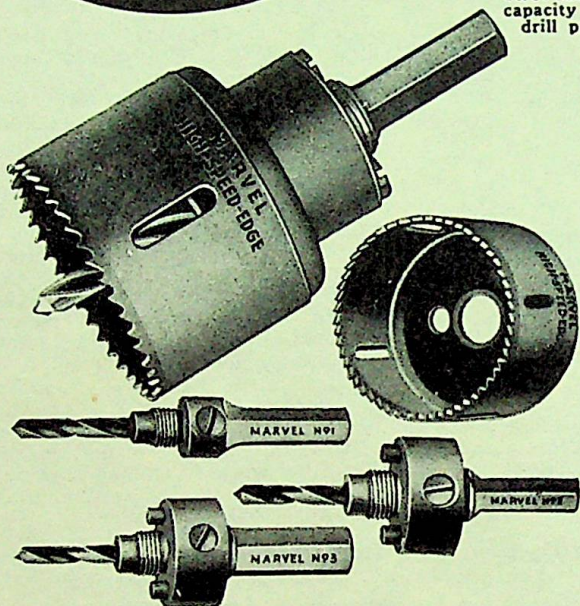


MARVEL Hole Saws

High Speed Steel Teeth—Alloy Steel Body

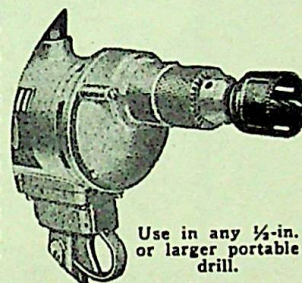


Increase the capacity of any drill press.



Here is a new thing in hole saws—strictly speaking, a quality tool that works to machinists' standards. MARVEL High-Speed-Edge Hole Saws are in a class by themselves—are made of finer steels, are much stronger, are much more satisfactory all around. They are the only hole saws available with genuine 18% tungsten high speed steel teeth (to withstand the terrific peripheral speeds of both portable electric drills and drill presses), with the teeth electrically welded by our patented process to a non-brittle and non-breakable chrome-vanadium alloy steel cup or body; and the only hole saws that really have sufficient tooth "set" or side clearance to properly clear the chips when doing deep work. Even the arbors of MARVEL High-Speed-Edge Hole Saws are heavier, sturdier, can be used in either 2-jaw or 3-jaw chucks—are vastly superior to ordinary arbors.

Users report that they are getting as much as 100 times more work from MARVEL Hole Saws than from other types. No matter what the job or material, you can be sure that a MARVEL will do it more economically, more quickly, more satisfactorily.



Use in any 1/2-in. or larger portable drill.

HOLE SAWS ONLY (Without Arbor)

Stock No. (in 16ths)	Saw Size, Diameter, Inches	Price, Each	Use with Arbor No.	Use for Pipe Tap, Pipe Size	Use for Pipe Entrance, Pipe Size
12	3/8	\$1.50	1	...	3/8
14	7/8	1.50	1	3/4	1/2
16	1	1.50	1	...	...
18	1 1/8	1.50	1	1	3/4
20	1 1/4	1.50	2 or 3	...	1
22	1 3/8	1.50	2 or 3	1 1/4	...
24	1 1/2	1.50	2 or 3	1 1/2	1 1/4
26	1 5/8	1.50	2 or 3	...	1 1/2
28	1 3/4	2.00	2 or 3	...	...
30	1 7/8	2.00	2 or 3	...	...
32	2	2.00	2 or 3	...	...
33	2 1/8	2.65	2 or 3	...	...
34	2 1/4	2.65	2 or 3	...	...
36	2 1/2	2.65	2 or 3	2	...
38	2 3/8	2.65	2 or 3	...	...
40	2 1/2	2.65	2 or 3	...	2
42	2 5/8	2.65	2 or 3	2 1/2	...
44	2 3/4	2.65	2 or 3	...	...
46	2 7/8	2.65	2 or 3	...	...
48	3	2.65	2 or 3	...	2 1/2
50	3 1/8	2.65	2 or 3	...	...
52	3 1/4	2.65	2 or 3	3	...
56	3 3/8	2.65	2 or 3	...	...
58	3 7/8	2.65	2 or 3	...	3
64	4	4.50	2 or 3	...	...
66	4 1/2	4.50	2 or 3	...	3 1/2

ARBORS

Price Each

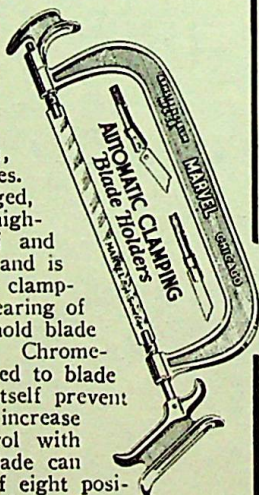
No. 1 ARBOR.	Has 1/2" hexagon shank. For 3/4" to 1 1/8" hole saws	\$1.50
No. 2 ARBOR.	Has 5/8" hexagon shank. For 1 1/4" to 4 1/8" hole saws	1.50
No. 3 ARBOR.	Has 3/4" hexagon shank. For 1 1/4" to 4 1/8" hole saws	1.50
No. 7 EXTENSION	for No. 1 or No. 2 Arbors. 1/2" hexagon shank, 12" long, for reaching inaccessible places	1.50

MARVEL

Heavy-Duty

Hack Saw Frames

Exceptionally high grade, rugged, convenient hand frames. Main frame is a hot forged, heat-treated aluminum alloy, highly polished; unusually stiff and strong, yet light in weight, and is indestructible. Machine-type clamping blade holders prevent wearing of the blade holder pins, and hold blade always rigid and square. Chrome-plated all-metal grips attached to blade holders in line with blade itself prevent "sticking" of blade in cut and increase accuracy, power, and control with greatly reduced fatigue. Blade can be rotated to face in any of eight positions without removing blade from clamping holders; and hand grips rotate with blade. One Non-breakable MARVEL High-Speed-Edge Heavy Duty Hack Saw Blade is always furnished with each frame.



TWO SIZES

Stock No.	Blade Length	Depth of Throat	Weight, Pounds	List Price, Each
10	10	3 3/4	2	\$6.00
12	12	4 1/2	2 1/2	6.50

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